

# EUROPEAN PATENT OFFICE

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APPLICANT : JAPAN STORAGE BATTERY CO LTD;

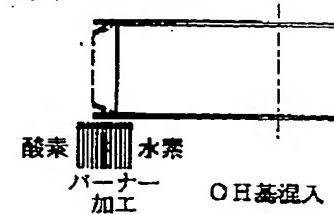
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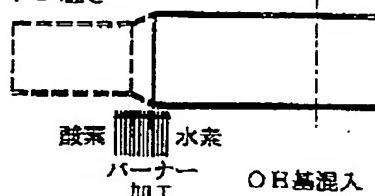
TITLE : MANUFACTURE OF METAL HALIDE LAMP

### 1. 測管維ぎ工程

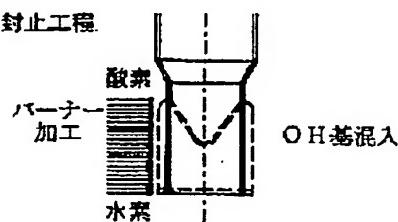
#### 1-1 紋り



#### 1-2 縫ぎ



### 2. 封止工程



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a long life of lamp, suppressing the going out at start of itself, the rise of starting voltage, and the blackening of a luminous tube, by lessening OH groups to be mixed in quartz to the utmost, and performing high-temperature vacuum furnace processing after processing, using a plasma torch for the processing of a quartz luminous tube.

**SOLUTION:** Out of side pipe joint process, in the case of having performed processing by oxyhydrogen burner for both drawing process and joint process, OH groups mix in. Moreover, also in the next sealing process, likewise OH groups mix in. So, for the processing by hydrogen burner, the same process is to be performed, using a plasma torch, and then processing in vacuum furnace at high temperature is performed for fifteen minutes or less, whereby the average OH content of the quartz luminous tube can be made 1ppm or under. This way, by using a plasma torch, the reduction of the processing in vacuum furnace at high temperature and the sharp reduction of the OH content become possible. Hereby, a long life of lamp can be obtained by suppressing the going out at start of a lamp, or the rise of starting voltage, or the blackening or devitrification of the light emitting tube.

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